VI.—Results of deep dredging off the Mull of Galloway, by Capt. Beechey, R.N. Drawn up by Wm. Thompson, Esq., Vice-Pres. Nat. Hist. Society of Belfast.

CAPTAIN BEECHEY, the distinguished navigator, having in the month of April last been engaged in a survey of part of the Scottish coast in H.M. steam-vessel Lucifer, most kindly undertook to use the dredge in the deepest water in which his soundings might be made, and the following are the highly interesting results obtained on three occasions; the products from the different depths being most carefully kept separate.

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loway.			fathoms, 8 miles the Mull of Gal-	S. W. tile Muli of Ga.						
Species obtained.	No. of living specimens.	No. of dead specimens.	Observations.	No. ot living specimens.	No. of dead specimens.	Observations.	No. of living specimens.	No. of dead specimens.	Observations.	
Mollusca. Trochus papillosus —— millegranus —— tumidus	1 		Adult			Many dead and bro- ken; chiefly small. A few dead			A few dead.	
Cypræa europæa Fusus turricola — muricatus — Bamffius — linearis		1			1	Ditto Ditto. Ditto Ditto Ditto	1	2	Ditto. A few dead; small.	
corneus Buccinum undatum Natica Alderi		•••			2 1 1	Small		1 1	Large. Small.	
Montagui Nasa macula Tornatella tornatilis Eulima polita Capulus hungaricus		•••	••••••			A few dead; small		2	Perfect. Small.	
Emarginula fissura Chiton fuscatus, Br. — discrepans, Br. ? Dentalium entalis .			Several dead .			Many dead	1		Several dead. A few living.	
Astarte Damnoniæ — scotica Lucina radula		•••	Odd valves		•••	Several; alive Several odd valves; chiefly small. Odd valve.		•••	Ditto; small.	
					• • •	Odd valves; medium size. Ditto chiefly; a few alive.			one perfect shell. Very few alive; and some odd valves.	
cassina			A few young, alive.		•••	Ditto; several small.		•••	A number of odd valves of all sizes.	

^{*} A remarkable dyke, beginning about 5 miles S.W. the Mull of Galloway, and extending northward nearly to Corsewall. It is from a mile to a mile and a quarter wide. Its average depth in the centre is 130 fathoms.

	From S.S	n 50 S.W.	fathoms, 8 miles the Mull of Gal-	From 110 to 140 fathoms, 5 miles S.W. the Mull of Galloway.				From 145 fathoms in Beaufort's Dyke,		
Species obtained.	No. of living specimens.	No. of dead specimens.	Observations.		No. of dead specimens.		No. of living specimens.	No. of dead specimens.	Observations.	
Myrtea spinifera Saxicava rugosa Nucula minuta — margaritacea . Cardium nodosum, (Turt. Bivalves.) Pectunculus pilosus Pecten obsoletus — opercularis — sinuosus Lima fragilis	 1 1		Odd valves Ditto A number, chiefly alive. Several dead . Young, odd valves. Odd valve			A few odd valves. Many ditto			One valve. A few odd valves. Ditto. An odd valve. Several odd valves. Ditto; small. Two odd valves. Several odd valves. Two odd valves. Two odd valves.	
discors			Odd valve	•••	1	Many odd valves Perfect Fragments		1	Odd valve. A number of odd valves. Two odd valves. Fragments.	
ECHINODERMATA. Asterias papposa Echinus sphæra, Mull. — miliaris, Leske Spatangus purpureus. Amphidotus roseus Echinocyamus pusillus. CRUSTACEA (all living). Ebalia Bryerii — Pennantii Eurynome aspera Hyas coarctatus	2 3 1		A few small and alive. A few living and dead.	1 1 4	1 1	One small. Very small. Ditto. Many alive; all under half size. A few alive; many dead.			A number, dead.	
Inachus scorpio PagurusBernhardus	ï	•••	In Buccinum undatum.	1	•••	Small.			No crustacea.	

		From 50 fathoms, 8 miles S.S.W. the Mull of Gal- loway.			Fr	From 110 to 140 fathoms, 5 miles S.W. the Mull of Galloway.				From 145 fathoms in Beaufort's Dyke.		
	Species obtained.	No. or living specimens.	No. of dead specimens.	Observations.	No. of living specimens.	No. of dead specimens.	Observations.	No. of living specimens.	No. of dead specimens.	Observations.		
	Galathea rugosa Arcturus longicor- nis, Westwood Annelida. Aphrodita aculcata	1			1	•••	Several small; none exceeding in body 1½ inch in length.					
- 94	Zoophytes*. Plumularia falcata . — myriophyllum Sertularia abietina . — cupressina — pinaster, So- land. and Ellis ‡	1	•••		2+2		One specimen.					
H	l'ubularia indivisa l'ampanularia du- mosa l'arcimia salicornia l'risia cornuta Cellepora ramulosa Skenei Ilustra foliacea truncata	1	•••		2 2 2 2 2 2		One specimen.	3†	•••	Excepting this there are crustaceous species only, as Lepralia, &c.		

I beg, in connexion with this and the preceding catalogue (by Mr. Hyndman), to call the attention of naturalists interested in the study of the Mollusca to the results obtained in a third locality on the western coast of Scotland—at Oban—by Mr. Jeffreys, published in Sowerby's 'Malacological Magazine' (No. 2, 1839). Mr. Jeffreys obtained "Terebratula aurita § plentifully in about 15 fathom water," and along with it found "Crania personata not uncommon." He procured also the three species of Lima—L. tenera, L. fragilis, L. subauriculata—taken off Sana Island. Nucula minuta was dredged at Oban as well as off the Mull of Galloway; it has been procured on different occasions by deep dredging in Belfast bay, and many years ago was found at the Giant's Causeway. The Myrtea spinifera, of which a single valve was

^{*} No Algæ were brought from any of the three depths.

[†] These numbers denote the different depths at which the species of Zoophytes were found; No. 1. at 50, No. 2. at 110, No. 3. at 145 fathoms. ‡ S. margarita, Hassall, seems to be identical with this. My specimen

[‡] S. margarita, Hassall, seems to be identical with this. My specimen is without vesicles. It agrees with the description and magnified figure of Solander and Ellis better than the figure of natural size.

[§] This species was dredged in Belfast bay by the collectors attached to the Ordnance Survey.

brought up off the Mull of Galloway, was found to be not uncommon in deep water at Oban—on the strand at Red Bay, county of Antrim, I found an example of this shell. Trochus papillosus and Eulima polita, dredged by Capt. Beechey, were not procured at the more northern localities, Sana island* and Oban—of the latter species, a single living example was taken in the course of the Ordnance Survey in Belfast bay. The most northern locality on the Irish coast, in which it had hitherto been obtained, was Dublin bay.

Many observations are suggested by these catalogues, and others of a similar nature in my possession, but to my friend Mr. E. Forbes must be left the treatment of a subject in which he of all men possesses the most ample and important data.

VII.—On a new British species of Alchemilla. By CHARLES C. Babington, M.A., F.L.S., F.G.S., &c.

In looking over the valuable herbarium belonging to W. Borrer, Esq., I was gratified by finding in it an original wild specimen of Alchemilla, gathered by the late Mr. G. Don upon the Clova Mountains, in Scotland, many years since, and considered by him as a species quite distinct from A. alpina. Upon a careful examination of the specimen and also of a living plant in Mr. Borrer's garden, I was soon convinced that the plant was indeed a distinct species, although it may be found in almost all the British botanical and other curious gardens under the name of alpina, the true alpina being often nameless in the same collections. Upon inquiry I have always found, that whenever the original source was known from which the roots were obtained, they are stated to have been sent by Mr. G. Don from Scotland. Upon showing the plant to the late lamented Prof. Don, he also informed me that his father had found it in Scotland.

Having now satisfied myself that the plant was a distinct species, and also that it came from the Highlands, I took all the means in my power to ascertain its identity with some described species, but having totally failed, I feel convinced that it has escaped the notice of botanists. It was denominated A. argentea by Mr. Don, but that name was never published, and as Lamarck employed the same name for A. alpina, I have considered it advisable to give a new name to this plant, as the employment of argentea (although a most excellent and descriptive name) would only tend to create confu-

^{*} In June 1842, Mr. Hyndman dredged a full-grown Trochus papillosus near Sana Island.